

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- Claim 1. **[Currently Amended]** An aqueous gel medium for facilitating the electrophoretic separation of analytes present in a sample, said medium comprising:
- (A) a non-crosslinked hydrophilic polymer;
 - (B) tris(hydroxymethyl)aminomethane – borate buffer;
 - (C) sodium dodecyl sulfate; and
 - (D) an organic additive;
- wherein:
- said tris(hydroxymethyl)aminomethane – borate buffer has a pH above 8.0 and below 8.3[.];
- said gel medium additionally contains one or more reagent(s) that function to help keep protein analytes in a reduced form;** and
- ~~wherein~~ said aqueous gel medium facilitates the electrophoretic separation of said analytes by comprising a molecular sieve.
- Claim 2. **[Canceled]**
- Claim 3. **[Currently Amended]** The aqueous gel medium of ~~claim 2~~ **claim 1**, wherein said one or more reagent(s) include a reducing reagent.

- Claim 4. **[Original]** The aqueous gel medium of claim, wherein said reducing reagent is selected from the group consisting of 2-mercaptoethanol, dithiothreitol (DTT), dithioerythreitol (DTE), and tris(2-carboxyethyl)phosphine.
- Claim 5 **[Original]** The aqueous gel medium of claim 4, wherein said reducing reagent is dithiothreitol (DTT).
- Claim 6. **[Currently Amended]** The aqueous gel medium of ~~claim 2~~ **claim 1**, wherein said one or more reagent(s) include a metal ion chelator.
- Claim 7. **[Original]** The aqueous gel medium of claim 6, wherein said reducing reagent is ethylenediaminetetraacetic acid (EDTA).
- Claim 8. **[Original]** The aqueous gel medium of claim 1, wherein said non-crosslinked hydrophilic polymer is selected from the group consisting of: dextran, polyacrylamide, cellulose derivatives and polyethylene oxide.
- Claim 9. **[Original]** The aqueous gel medium of claim 8, wherein said non-crosslinked hydrophilic polymer is dextran.
- Claim 10. **[Original]** The aqueous gel medium of claim 9, wherein said dextran has a molecular weight of 2,000 kilodaltons and possesses a non-cross-linked structure composed of approximately 95% alpha-D-(1-6) linkages.
- Claim 11. **[Original]** The aqueous gel medium of claim 1, wherein said organic additive is an alcohol.
- Claim 12. **[Original]** The aqueous gel medium of claim 11, wherein said alcohol is present at a concentration of from about 0.1% to about 30% (V/V).

- Claim 13. **[Original]** The aqueous gel medium of claim 12, wherein said alcohol is selected from the group consisting of: methanol, ethanol, ethylene glycol and glycerol.
- Claim 14. **[Original]** The aqueous gel medium of claim 13, wherein said alcohol is glycerol.
- Claim 15. **[Original]** The aqueous gel medium of claim 14, wherein said glycerol is present at a concentration of from about 0.1% to about 30% (V/V).
- Claim 16. **[Original]** The aqueous gel medium of claim 1, wherein said Tris-borate buffer is present at a concentration of from about 0.1M to about 1.0M.
- Claim 17. **[Original]** The aqueous gel medium of claim 1, wherein said aqueous gel medium has a pH of 8.1 ± 0.1 .
- Claim 18. **[Original]** The aqueous gel medium of claim 1, wherein said analytes include analytes selected from the group consisting of: proteins, polypeptides, peptides and nucleic acid molecules.
- Claim 19. **[Currently Amended]** A capillary electrophoresis system comprising a capillary tube containing an aqueous gel medium, said medium comprising:
- (A) a non-crosslinked hydrophilic polymer;
 - (B) tris(hydroxymethyl)aminomethane – borate buffer;
 - (C) sodium dodecyl sulfate; and
 - (D) an organic additive;
- wherein:
- said tris(hydroxymethyl)aminomethane – borate buffer has a pH above 8.0 and below 8.3[.];
- said gel medium additionally contains one or more reagent(s) that function to help keep protein analytes in a reduced form;** and

wherein said aqueous gel medium facilitates the electrophoretic separation of said analytes by comprising a molecular sieve.

Claim 20. [~~Canceled~~]

Claim 21. [**Currently Amended**] The capillary electrophoresis system of ~~claim 20~~ claim 19, wherein said one or more reagent(s) include a reducing reagent.

Claim 22. [**Original**] The capillary electrophoresis system of claim 21, wherein said reducing reagent is selected from the group consisting of 2-mercaptoethanol, dithiothreitol (DTT), dithioerythreitol (DTE), and tris(2-carboxyethyl)phosphine.

Claim 23. [**Original**] The capillary electrophoresis system of claim 22, wherein said reducing reagent is dithiothreitol (DTT).

Claim 24. [**Currently Amended**] The capillary electrophoresis system of ~~claim 20~~ claim 19, wherein said one or more reagent(s) include a metal ion chelator.

Claim 25. [**Original**] The capillary electrophoresis system of claim 24, wherein said reducing reagent is ethylenediaminetetraacetic acid (EDTA).

Claim 26. [**Original**] The capillary electrophoresis system of claim 19, wherein said non-crosslinked hydrophilic polymer is selected from the group consisting of: dextran, polyacrylamide, cellulose derivatives and polyethylene oxide.

Claim 27. [**Original**] The capillary electrophoresis system of claim 26, wherein said non-crosslinked hydrophilic polymer is dextran.

Claim 28. [**Original**] The capillary electrophoresis system of claim 27, wherein said dextran has a molecular weight of 2,000 kilodaltons and possesses a non-

cross-linked structure composed of approximately 95% alpha-D-(1-6) linkages.

- Claim 29. **[Original]** The capillary electrophoresis system of claim 19, wherein said organic additive is an alcohol.
- Claim 30. **[Original]** The capillary electrophoresis system of claim 29, wherein said alcohol is present at a concentration of from about 0.1% to about 30% (V/V).
- Claim 31. **[Original]** The capillary electrophoresis system of claim 30, wherein said alcohol is selected from the group consisting of: methanol, ethanol, ethylene glycol and glycerol.
- Claim 32. **[Original]** The capillary electrophoresis system of claim 31, wherein said alcohol is glycerol.
- Claim 33. **[Original]** The capillary electrophoresis system of claim 32, wherein said glycerol is present at a concentration of from about 0.1% to about 30% (V/V).
- Claim 34. **[Original]** The capillary electrophoresis system of claim 19, wherein said Tris-borate buffer is present at a concentration of from about 0.1M to about 1.0M.
- Claim 35. **[Original]** The capillary electrophoresis system of claim 19, wherein said aqueous gel medium has a pH of 8.1 ± 0.1 .
- Claim 36. **[Original]** The capillary electrophoresis system of claim 19, wherein said analytes include analytes selected from the group consisting of: proteins, polypeptides, peptides, polysaccharides, and nucleic acid molecules.